

# Diarrhoea and/or Vomiting (Gastroenteritis) Pathway

Clinical Assessment / Management Tool for Children with suspected Gastroenteritis



## Management - Acute Setting

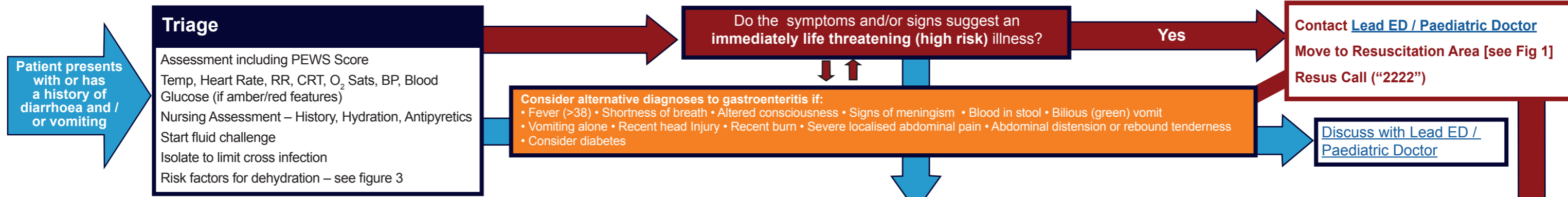


Table 1	Clinical Findings	Green - low risk	Amber - intermediate risk	Red - high risk
	<b>Age</b>	Over 3 months old	Under 3 months old	
	<b>Behaviour</b>	<ul style="list-style-type: none"> <li>Responds normally to social cues</li> <li>Content / smiles</li> <li>Stays awake / awakens quickly</li> <li>Strong normal crying / not crying</li> <li>Appears well</li> </ul>	<ul style="list-style-type: none"> <li>Altered response to social cues</li> <li>No smile</li> <li>Decreased activity</li> <li>Irritable</li> <li>Lethargic</li> <li>Appears unwell</li> </ul>	<ul style="list-style-type: none"> <li>No response to social cues</li> <li>Unable to rouse or if roused does not stay awake</li> <li>Weak, high pitched or continuous cry</li> <li>Appears ill to a healthcare professional</li> </ul>
	<b>Skin</b>	<ul style="list-style-type: none"> <li>Normal skin colour</li> <li>Warm extremities</li> <li>Normal turgor</li> </ul>	<ul style="list-style-type: none"> <li>Normal skin colour</li> <li>Warm extremities</li> <li>Reduced</li> </ul>	<ul style="list-style-type: none"> <li>Pale / mottled / blue</li> <li>Cold extremities</li> </ul>
	<b>Hydration</b>	<ul style="list-style-type: none"> <li>CRT &lt; 2 secs</li> <li>Moist mucous membranes</li> <li>Fontanelle normal</li> </ul>	<ul style="list-style-type: none"> <li>CRT 2-3 secs</li> <li>Dry mucous membranes</li> <li>Sunken fontanelle</li> </ul>	<ul style="list-style-type: none"> <li>CRT &gt; 3 secs</li> </ul>
	<b>Urine output</b>	<ul style="list-style-type: none"> <li>Normal urine output</li> </ul>	<ul style="list-style-type: none"> <li>Reduced urine output / no urine output for 12 hours</li> </ul>	<ul style="list-style-type: none"> <li>No urine output for &gt;24 hours</li> </ul>
	<b>Respiratory</b>	<ul style="list-style-type: none"> <li>Normal breathing pattern and rate*</li> </ul>	<ul style="list-style-type: none"> <li>Normal breathing pattern and rate*</li> </ul>	<ul style="list-style-type: none"> <li>Abnormal breathing / tachypnoea*</li> </ul>
	<b>Heart Rate</b>	<ul style="list-style-type: none"> <li>Heart rate normal</li> <li>Peripheral pulses normal</li> </ul>	<ul style="list-style-type: none"> <li>Tachycardia: HR &gt; 150 beats/min if age 1-2 years; HR &gt; 140 beats/min if age 3-5 years; HR &gt; 120 beats/min if age 6-11 years; HR &gt; 100 beats/min if age &gt;12 years</li> <li>Peripheral pulses normal</li> </ul>	<ul style="list-style-type: none"> <li>Weak peripheral pulses</li> </ul>
	<b>Eyes</b>	<ul style="list-style-type: none"> <li>Not sunken</li> </ul>	<ul style="list-style-type: none"> <li>Sunken Eyes</li> </ul>	
	<b>Other</b>		<ul style="list-style-type: none"> <li>Additional parent/carer support required</li> </ul>	

**Fig 1 Management when clinical shock suspected**

- Check blood glucose and blood gas
- Give 10-20 ml/kg 0.9% Sodium Chloride or Plasmalyte IV / IO
- Reassess
- Second Bolus 10-20 ml/kg 0.9% NaCl or Plasmalyte
- Reassess
- Consider contacting SORT (023 8077 5502)

**Fig 2 Management of Clinical Dehydration**

- Fluid trial – Dilute apple juice/ORS 5ml every 5 mins
- Consider Ondansetron 0.1mg/kg PO/sublingual (max 4mg) if continued vomiting in context of suspected gastroenteritis
- If fluids not tolerated or hydration not improved within 2 hours of arrival to ED please refer to paediatric team
- If fluids tolerated and hydration improves proceed to green action with consideration of referral to acute paediatric community nursing team if available

**Fig 3 Children at increased risk of dehydration are those:**

- Aged <1 year old (and especially the < 6 month age group)
- Have not taken or have not been able to tolerate fluids before presentation
- Have vomited three times or more in the last 24 hours
- Has had six or more episodes of loose stool in the past 24 hours
- History of faltering growth

For all patients, continue monitoring following PEWS Chart recommendation

**Green Action**

Provide Written and Verbal advice (see [patient advice sheet](#))  
Continue with breast and / or bottle feeding  
Encourage fluid intake, little and often  
Children at increased risk of dehydration [see Fig 3]  
Confirm they are comfortable with the decisions / advice given.

**Amber Action**

Begin management of clinical dehydration algorithm [see Fig 2]  
Blood Glucose  
Advice from [Lead ED / Paediatrician](#) should be sought and/or a clear management plan agreed with parents.  
Consider referral to [acute paediatric community nursing team](#) if available

**Urgent Action**

[Immediate Paediatric Assessment](#)  
If clinical shock suspected or confirmed follow management plan [see Fig 1]

**\*Normal paediatric values (APLS):**

(APLS†)	Respiratory Rate at rest: [b/min]	Heart Rate [bpm]
< 1 year	30 - 40	110 - 160
1-2 years	25 - 35	100 - 150
> 2-5 years	25 - 30	95 - 140
5-12 years	20-25	80-120
>12 years	15-20	60-100



This guidance was written in collaboration with the SE Coast SCN and involved extensive consultation with healthcare professionals in Wessex

This document was arrived at after careful consideration of the evidence available including but not exclusively NICE, SIGN, EBM data and NHS evidence, as applicable. Healthcare professionals are expected to take it fully into account when exercising their clinical judgement. The guidance does not, however, override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient in consultation with the patient and / or carer.